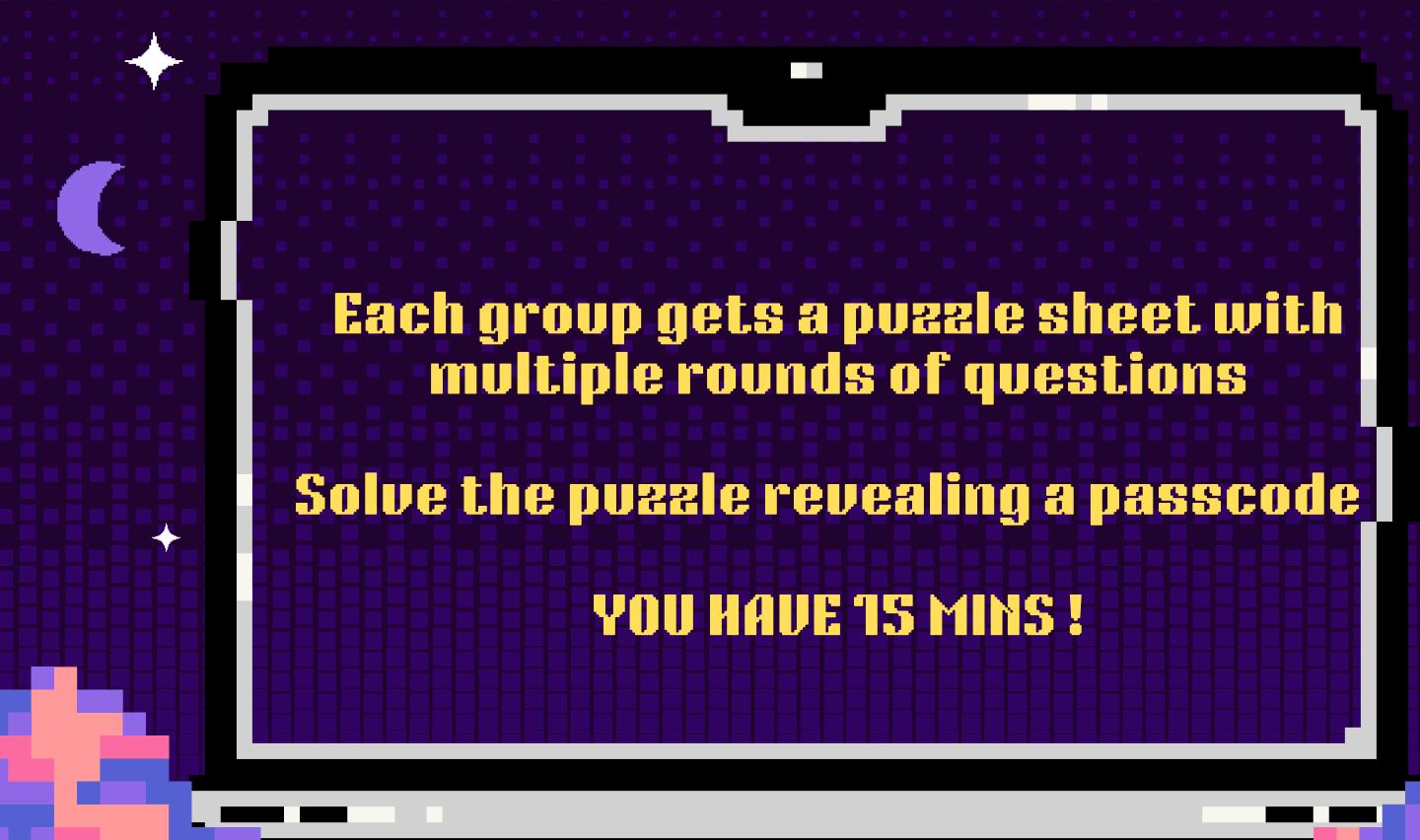
LET'S FIRST RECAP!





indexing: a numbering of elements/characters

begins with 0

0 1 2 3 4 5 6 7

Word = "F N U E L O P E"

0 1 2 3 4 5 6 7 8 9 10 11 12 13

Rand = "G U N S A N D R O S E S"

Accessing letters and slicing

Band [5]= 'A'

Band [4]= ' '

Band [0]= 'G'

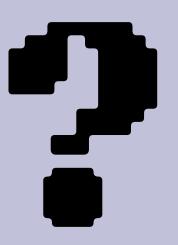
Band [-1]= 'S'

SPACES ARE ALSO CHARACTERS
FIRST CHAR IN THE STRING
LAST CHAR IN THE STRING

Band [5:8]

Band [:5]

Band [9:]



IN BUILT STRING FUNCTIONS

(functions you can use without having created them yourself)

Where might we use these? What datatype values do you think they return?

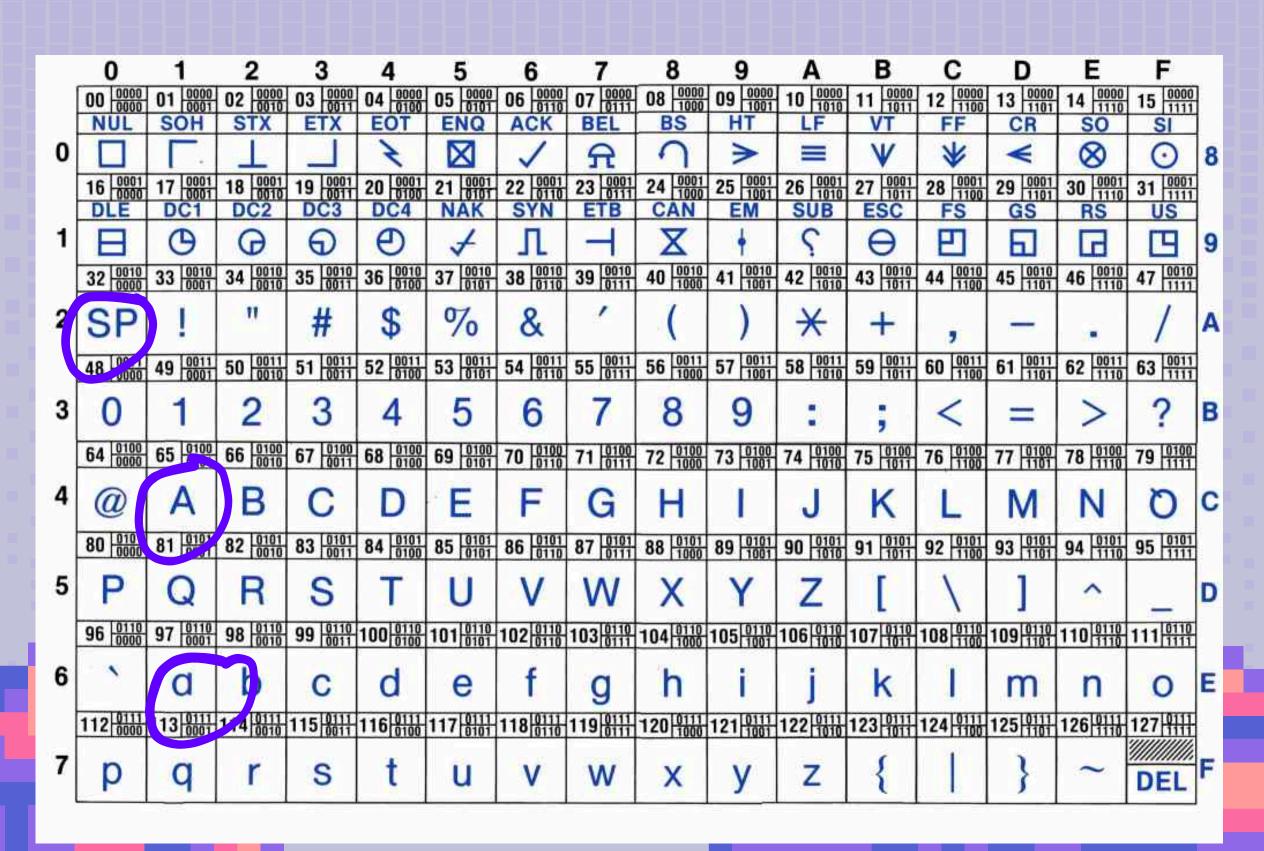
text.lower()	Converts all characters to lowercase
text.upper()	Converts all characters to uppercase
text.find('cloud')	Checks if the string 'cloud' is present in string text
text.count('or')	Counts number of times 'or' is present in string text
text.isalpha()	Checks if all of a string's characters are alphabets
text.isdigit()	Checks if all of a string's characters are digits

ASCII Codes

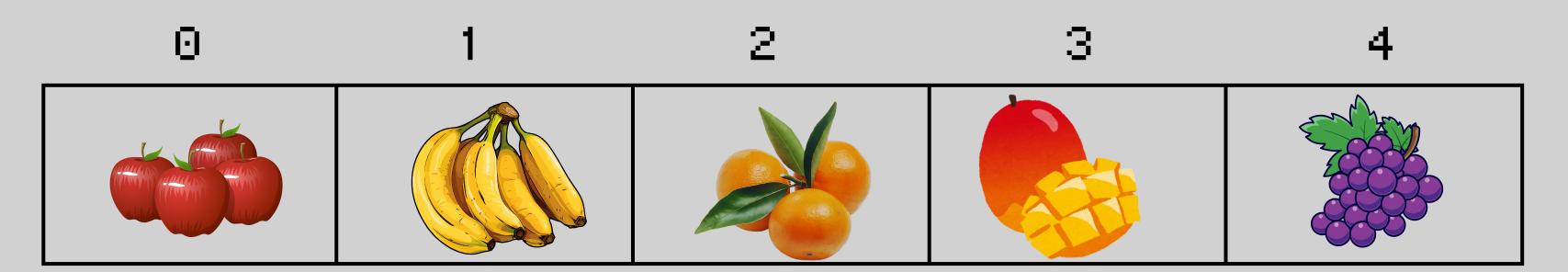
Numeric representation of characters such as digits, letters, & symbols

ascii_code= ord('A') chr(65)= 'A'

why might this be useful?



Arrays



fruits = ["apples", "bananas", "oranges", "mangoes", "grapes"]

accessing elements fruits [0], fruits [1], etc.

follows the similar indexing starting from 0 as in strings

How might we perform a swap of elements? say we want to swap the first and last element.

IN BUILT ARRAY FUNCTIONS

(functions you can use without having created them yourself)

array.append(x)	Adds element x to the array
array.remove(x)	removes the element from the array
array.sort()	Sorts the array in place
array. count(x)	counts the number of times x is present in array
array.index(x)	gives us the index location of first instance of x

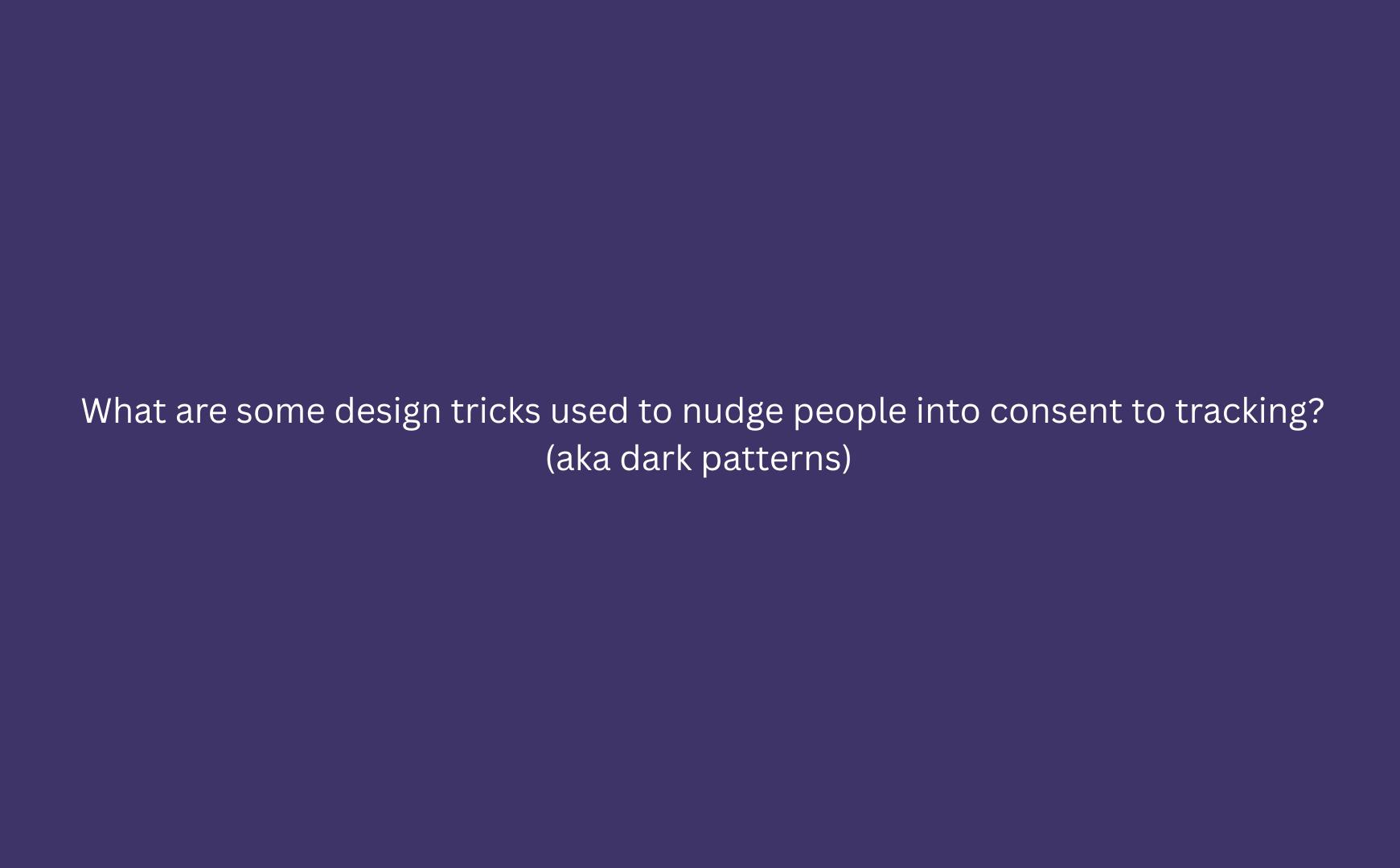


Behavioural profiling: Not just what you click, but what you might do (predictive models).

Trying to categorize you based on behavior.

Activity: Call up a three people from class and make them read out a list of ten things they recently searched up that they are ok sharing

What ads would you recommend them, how might they be tagged?





Economic angle: Data as the "new oil" - how has data been commodified? who are the data brokers??

data brokers: https://www.youtube.com/watch?v=wqn3gR1WTcA